CITY OF WARWICK FIRE ALARM AND SPRINKLER UPGRADES

LIST OF DRAWINGS:

FP-1.0	975 SANDY LANE FIRE PROTECTION - NOTES, DETAILS AND SITE

PLAN

FP-1.1 975 SANDY LANE FIRE PROTECTION - PARTIAL FIRST FLOOR

PLAN

FP-1.2 975 SANDY LANE FIRE PROTECTION - PARTIAL FIRST FLOOR

PLAN

FP-1.3 975 SANDY LANE FIRE PROTECTION - PARTIAL FIRST FLOOR

PLAN

FP-1.4 975 SANDY LANE FIRE PROTECTION - SECOND FLOOR PLAN

FP-A1.1 975 SANDY LANE FIRE PROTECTION - PARTIAL FIRST FLOOR

ALTERNATE PLAN

FP-A1.2 975 SANDY LANE FIRE PROTECTION - PARTIAL FIRST FLOOR

ALTERNATE PLAN

FP-A1.3 975 SANDY LANE FIRE PROTECTION - PARTIAL FIRST FLOOR

ALTERNATE PLAN

FA-1.0 975 SANDY LANE FIRE ALARM - NOTES, LEGEND, DETAILS, AND

SECOND FLOOR PLAN

FA-1.1 975 SANDY LANE FIRE ALARM - PARTIAL FIRST FLOOR PLAN

FA-1.2 975 SANDY LANE FIRE ALARM - PARTIAL FIRST FLOOR PLAN

975 SANDY LANE FIRE ALARM - PARTIAL FIRST FLOOR PLAN

FA-2.0 955 SANDY LANE FIRE ALARM - NOTES, LEGEND, AND DETAILS

FA-2.1 955 SANDY LANE FIRE ALARM - FIRST FLOOR AND MEZZANINE

PLAN

FA-1.3



MCDERMOTT POOL 955 SANDY LANE WARWICK, RI 02889



THAYER-WARBURTON ARENA 975 SANDY LANE WARWICK, RI 02889

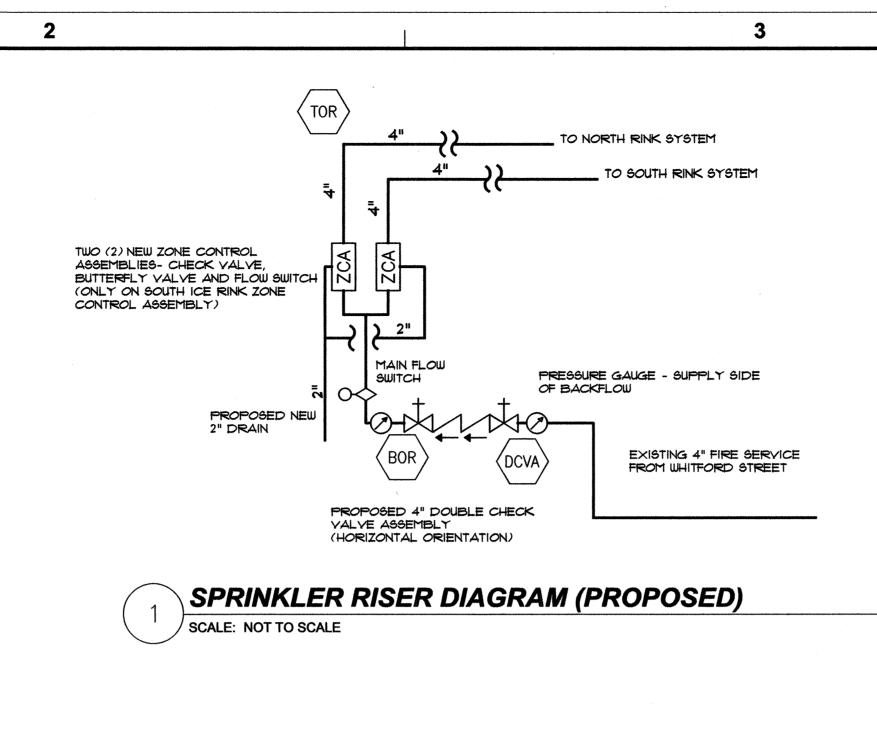
	117 METR WARWICK	HUGH ASSOCI RS CONSULTANTS O CENTER BOULEVARD (RHODE ISLAND 02886 8992 F 401.736.8929 e.com	ATES SCIENTISTS SUITE 1002
D			
	SEAL		
C			
	ACTING UND ALTER THIS I ALTERING E AND THE I SIGNATU	ATION OF STATE LAW FOR ANY DER THE DIRECTION OF A LICEN DRAWING IN ANY WAY. IF AN ITI ENGINEER SHALL AFFIX TO THE NOTATION "ALTERED BY" FOLLO RE AND THE DATE OF SUCH ALT ECIFIC DESCRIPTION OF THE AL	ISED ENGINEER, TO EM IS ALTERED, THE ITEM HIS/HER SEAL DWED BY HIS/HER 'ERATION, AND A
			TOCH!
В	NO.	REVISION	DATE
		ALARM AND NKLER UPGR	ADE
A	DATE	0218.001 MBER 04, 2014	
		AWING IS LESS THAN 24" X 36" PHIC SCALE ACCORDINGLY.	

3

3. WET CORE DRILLING SHALL BE USED WITH PROPER PROTECTION IN PLACE TO PREVENT DAMAGE

4. ALL FLOORS SHALL BE COVERED WITH PLASTIC FLOOR COVERING DURING CONSTRUCTION IN

THE BUILDING.

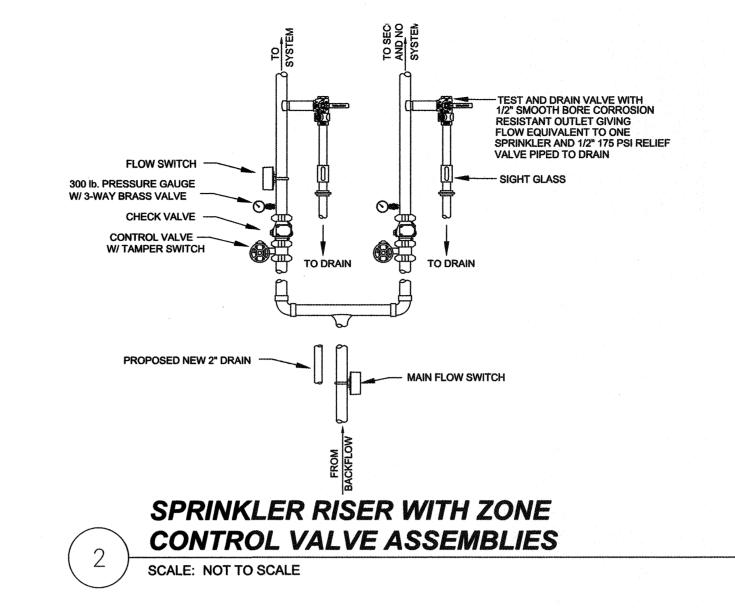


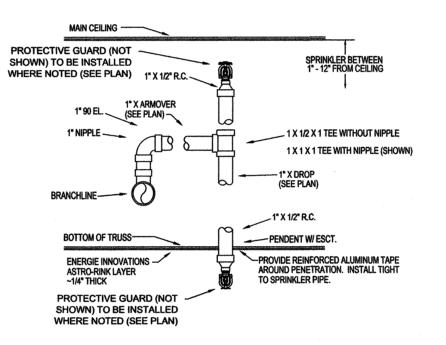
BRANCHLINE-

SUSPENDED CEILING -

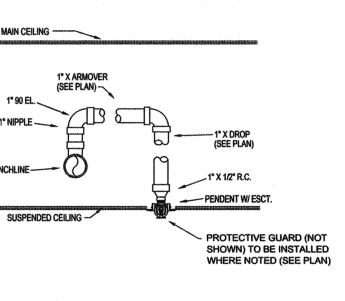
TYPICAL CONCEALED

PENDENT SPRINKLER









TYPICAL SPRINKLER RETURN BEND

ESCUTCHEON

WHITE

TYPICAL SPRINKLER PIPING CONNECTION(S) TO BRANCHLINE

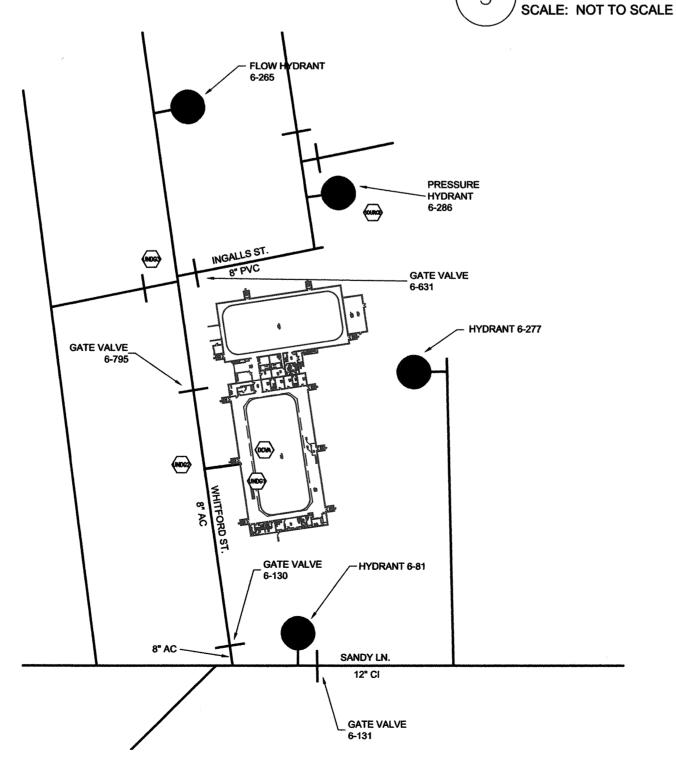
SYMBOL MANUFACTURER

STATIC:

RESIDUAL: FLOW:

85 PSI

53 PSI 1062 GPM



PROTECTIVE GUARD (NOT SHOWN) TO BE INSTALLED

WHERE NOTED (SEE PLAN)

1" X 1/2" R.C

(IF APPLICABLE) -

BRANCHLINE -

TYPICAL UPRIGHT

SPRINKLER

1" X 1/2" R.C. ~

TY3231 TY5339	PENDENT EXTENDED COVERAGE HORIZ. SIDEWALL	QUICK QUICK	1/2" 3/4"	5.6 11.2	BRASS CHROME	NONE CHROME
		QUICK	3/4"	11.2	CHROME	CHROME
		Ē	1			
TY3321	HORIZ. SIDEWALL	QUICK	1/2"	5.6	BRASS	CHROME
G1 or G4	SPRINKLER GUARD	_	_		_	-
	SYMBOL	S LEGEND				
SPRINKLER RISER			8	FLOW SWITCH		
ZONE CONTRO	Ď	INSPECTOR'S TEST VALVE				
INDICATING BU		CONNECT TO EXISTING SYSTEM				
DOUBLE CHEC	-]	FLUSHING CONNECTION				
CHECK VALVE			0	PIPE RISE		
NEW SPRINKLER PIPE (PROPOSED)			ጥ	ELBOW DOWN		
HYDRAULIC NODE TAG			00	FIRE DEPARTMENT CONNECTION		
HYDRAULIC RE	MOTE AREA					
			ntanacatri, potivica ni jugarperoninta			
	G1 or G4 SPRINKLER RIS ZONE CONTRO INDICATING BU DOUBLE CHEC CHECK VALVE NEW SPRINKLE HYDRAULIC NO	G1 or G4 SPRINKLER GUARD SYMBOL SPRINKLER RISER ZONE CONTROL ASSEMBLY INDICATING BUTTERFLY VALVE DOUBLE CHECK BACKFLOW PREV CHECK VALVE NEW SPRINKLER PIPE (PROPOSE	G1 or G4 SPRINKLER GUARD - SYMBOLS LEGEND SPRINKLER RISER ZONE CONTROL ASSEMBLY INDICATING BUTTERFLY VALVE DOUBLE CHECK BACKFLOW PREVENTER CHECK VALVE NEW SPRINKLER PIPE (PROPOSED) HYDRAULIC NODE TAG	SYMBOLS LEGEND SYMBOLS LEGEND SPRINKLER RISER ZONE CONTROL ASSEMBLY INDICATING BUTTERFLY VALVE DOUBLE CHECK BACKFLOW PREVENTER CHECK VALVE NEW SPRINKLER PIPE (PROPOSED) HYDRAULIC NODE TAG	G1 or G4 SPRINKLER GUARD SYMBOLS LEGEND SPRINKLER RISER ZONE CONTROL ASSEMBLY INDICATING BUTTERFLY VALVE DOUBLE CHECK BACKFLOW PREVENTER CHECK VALVE NEW SPRINKLER PIPE (PROPOSED) PIPE HYDRAULIC NODE TAG SYMBOLS LEGEND FLOW FLOW FLOW FLOW FLOW FIRE	SPRINKLER RISER SYMBOLS LEGEND SPRINKLER RISER SPRINKLER RISER SPRINKLER RISER SPRINKLER RISER FLOW SWITCH INSPECTOR'S TE CONNECT TO EX DOUBLE CHECK BACKFLOW PREVENTER CHECK VALVE NEW SPRINKLER PIPE (PROPOSED) THE DEPARTMENT

SPRINKLER LEGEND

CONCEALED PENDENT QUICK

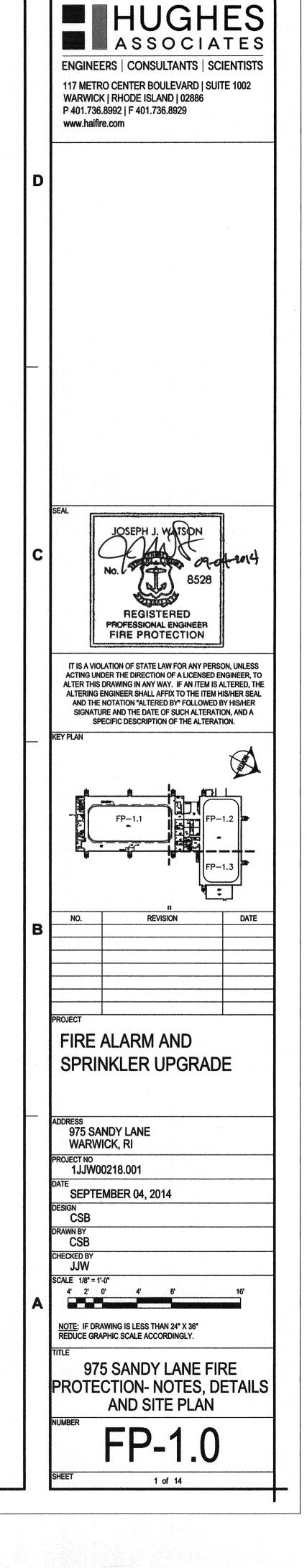
RESPONSE NPT

K-FACTOR

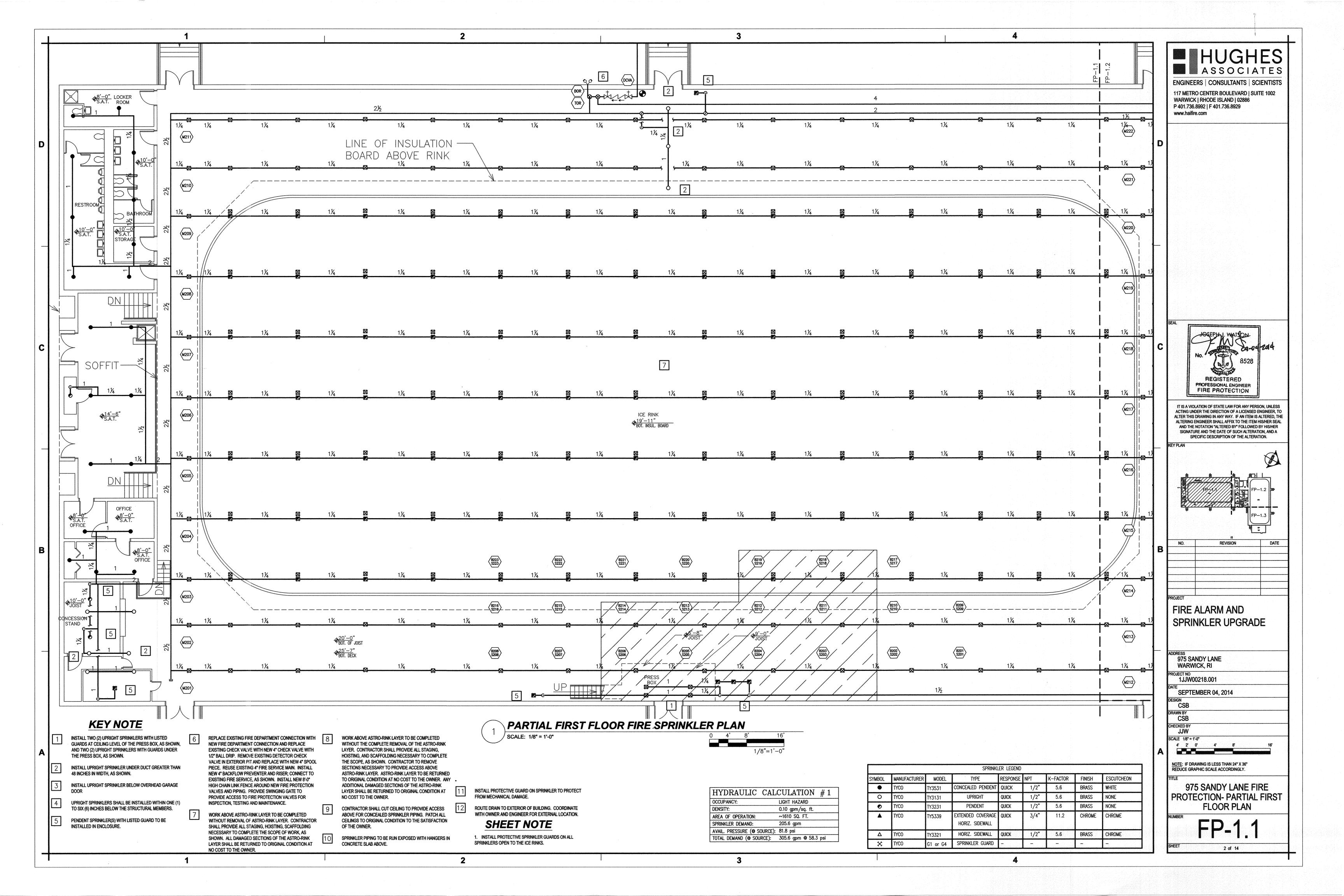
5.6

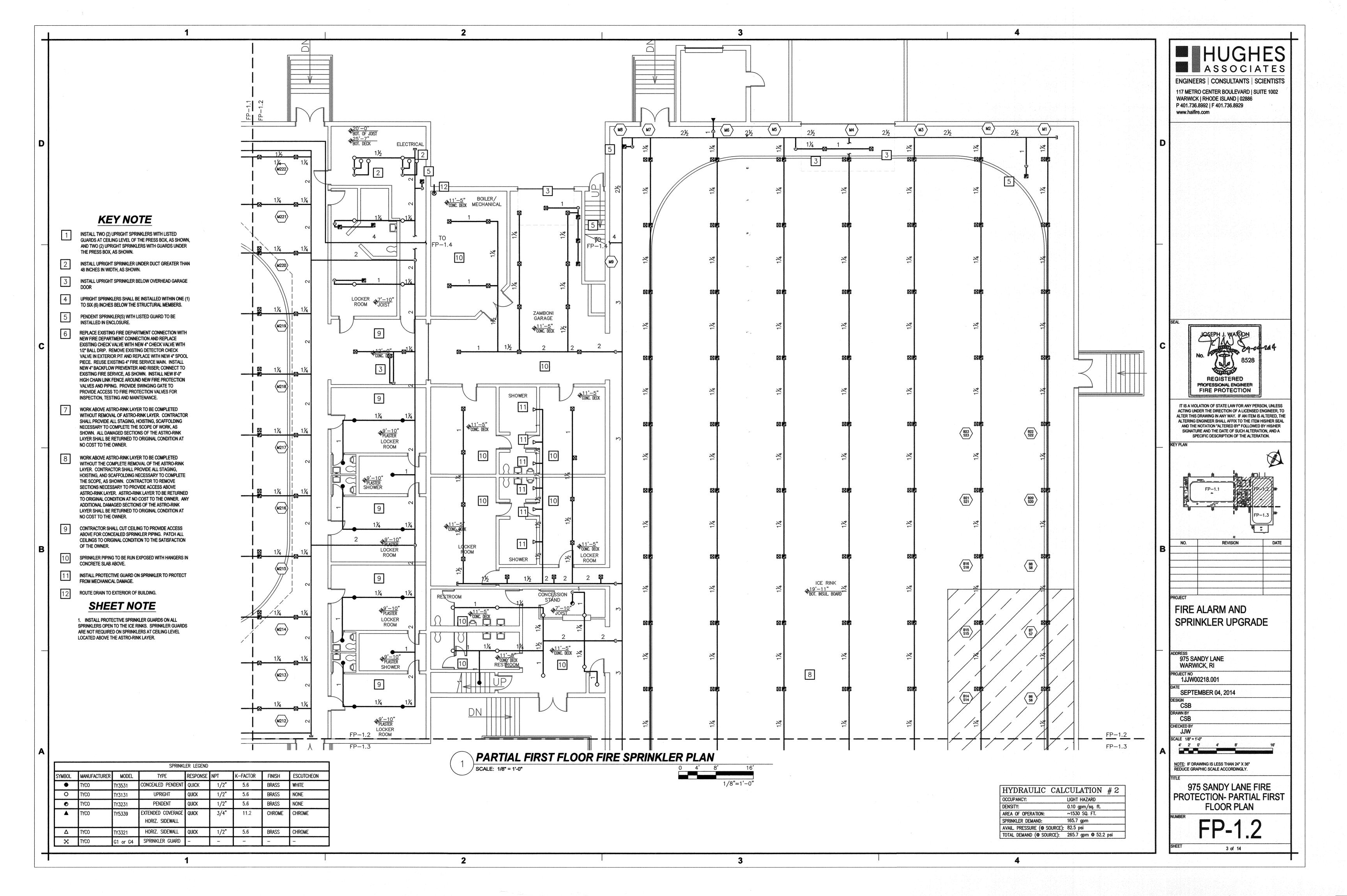
FINISH

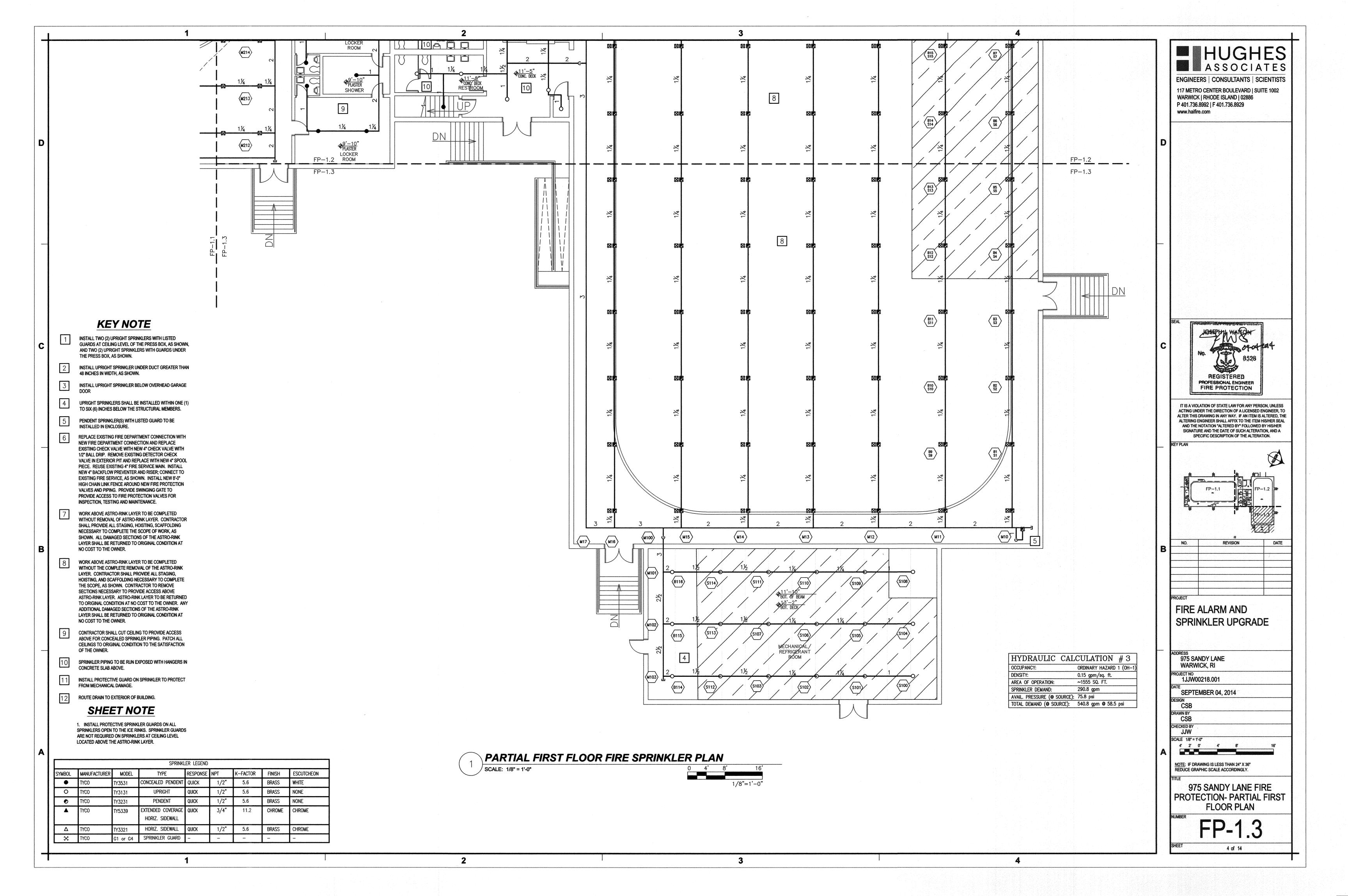
BRASS

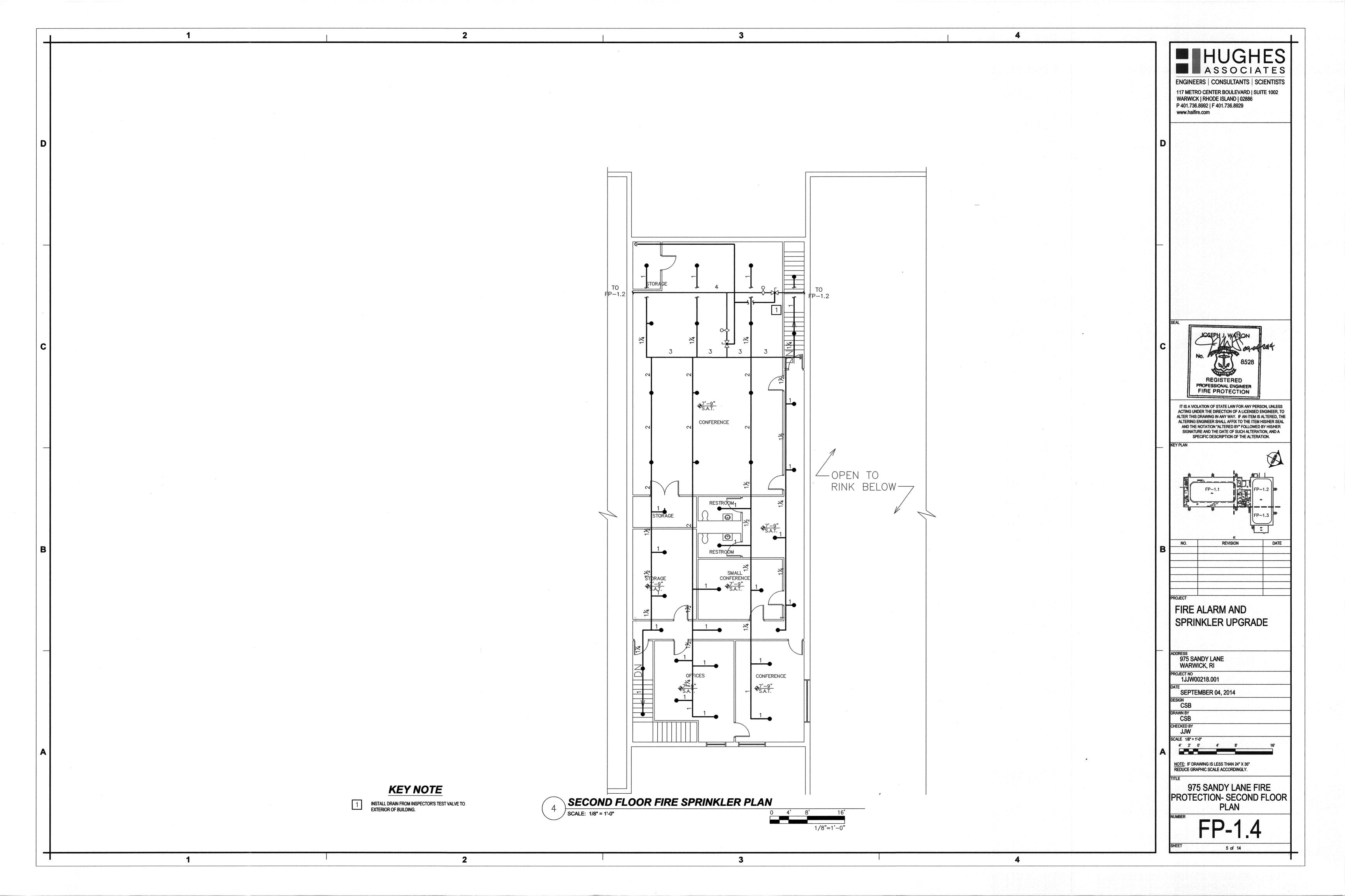


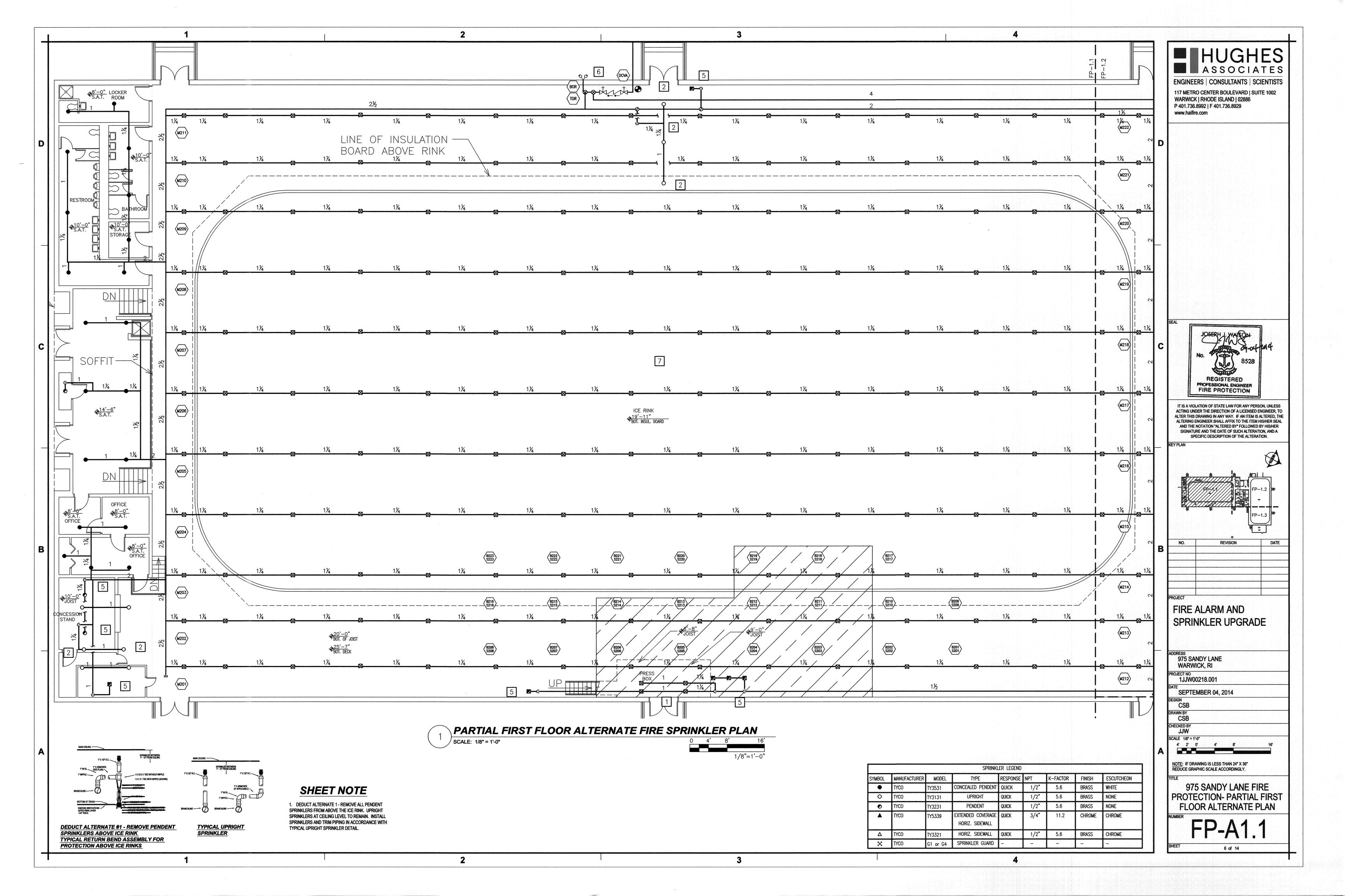
EXISTING UNDERGROUND SITE PLAN SCALE: NOT TO SCALE

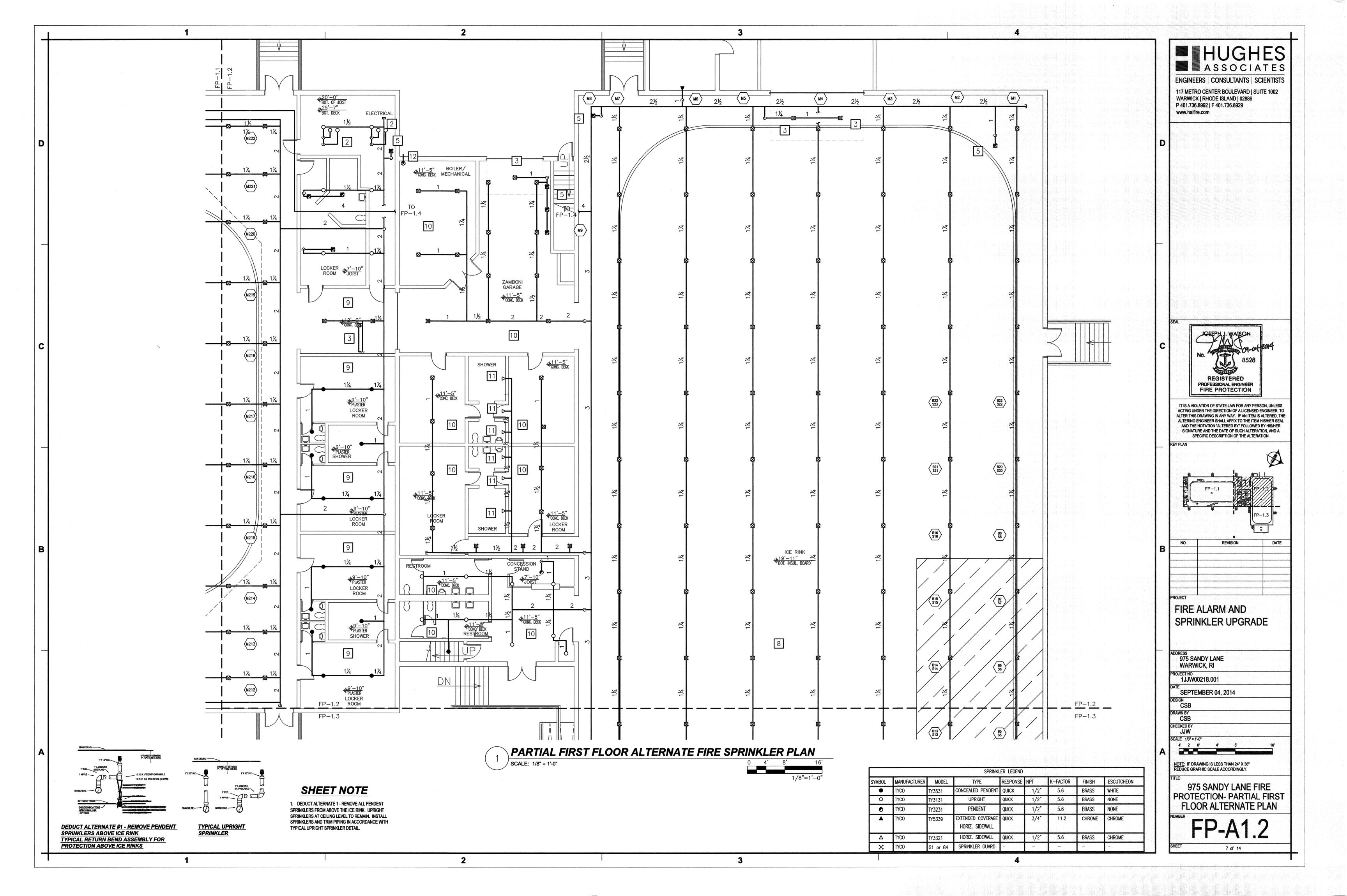


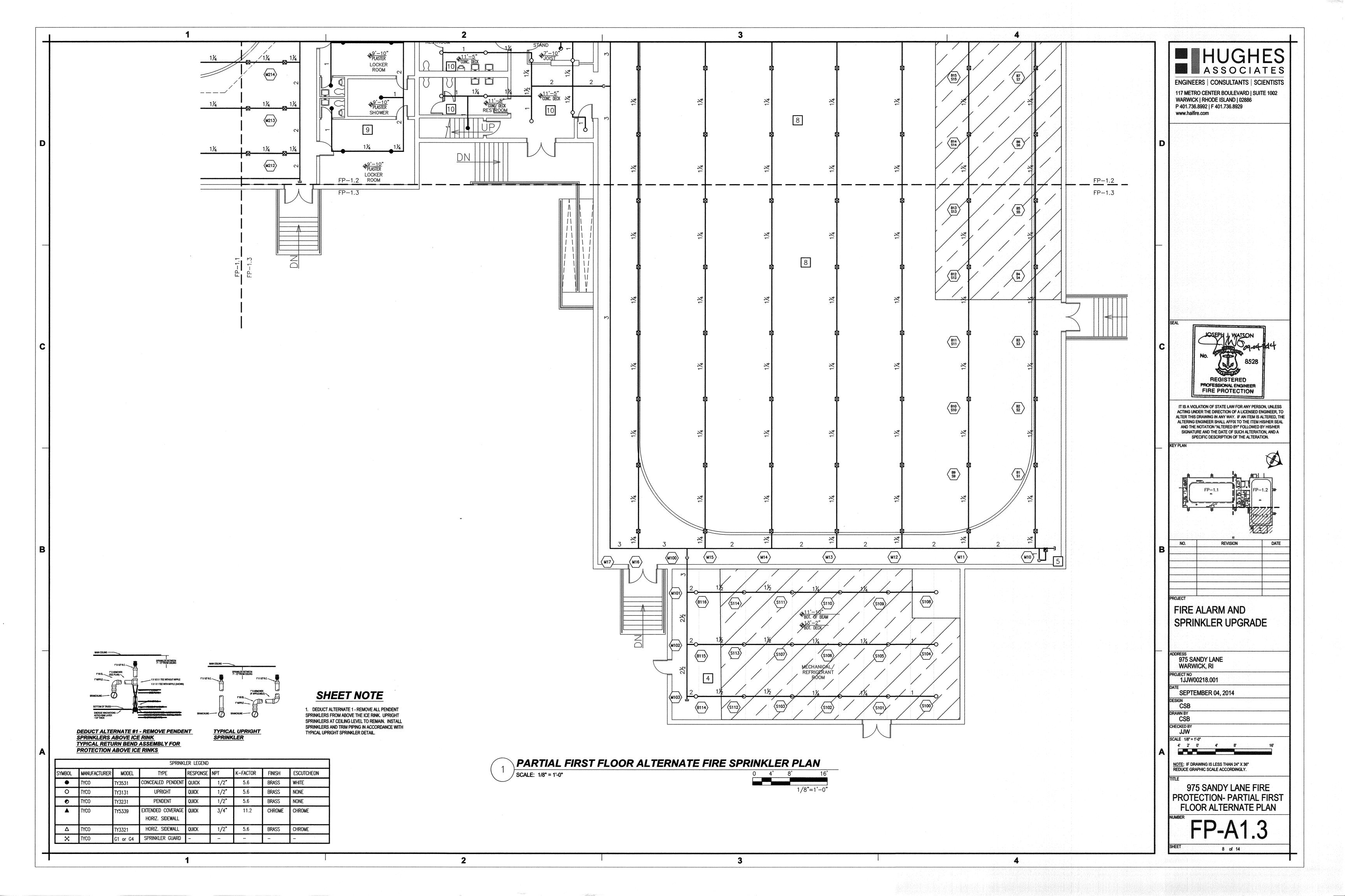


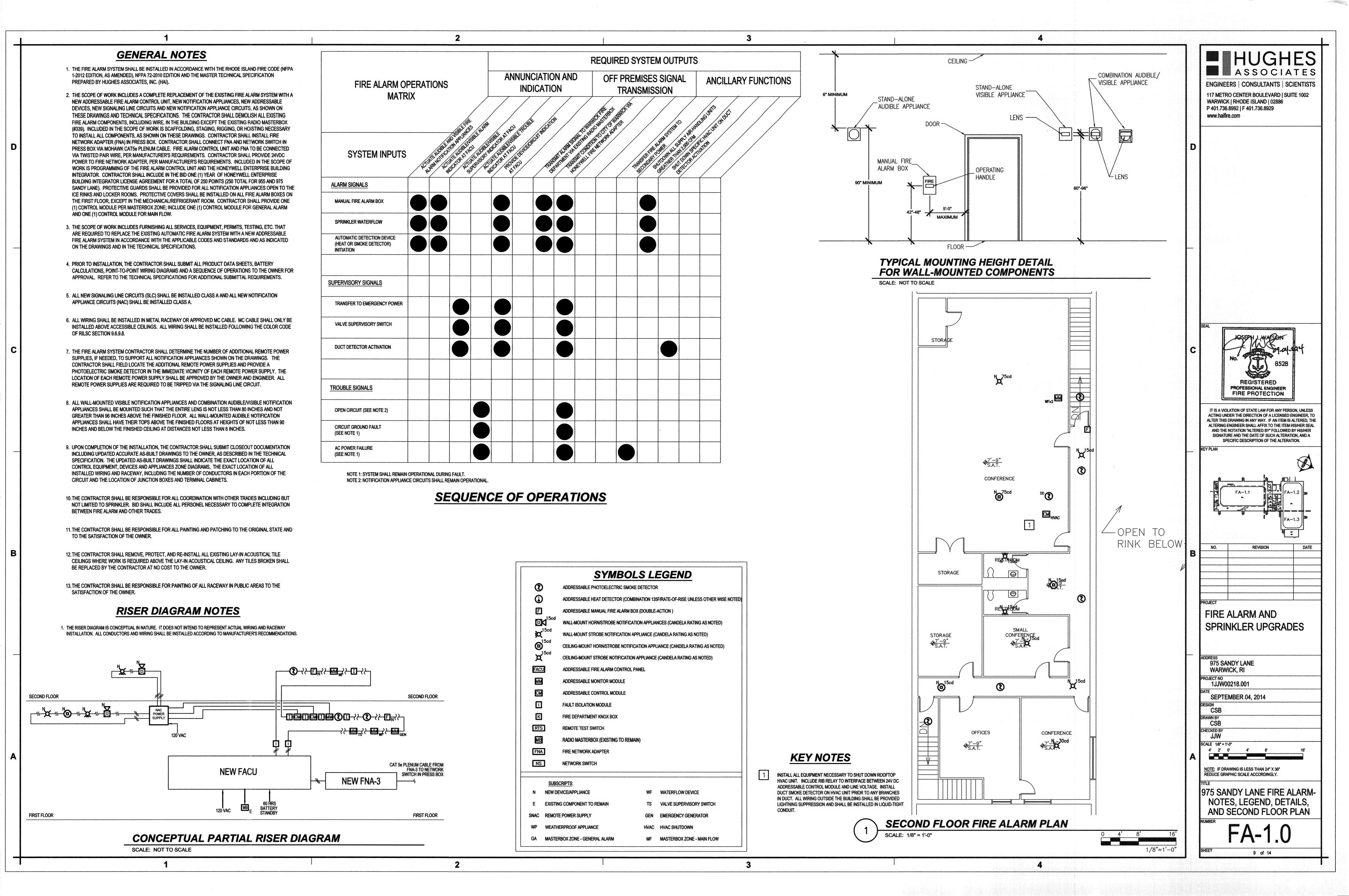


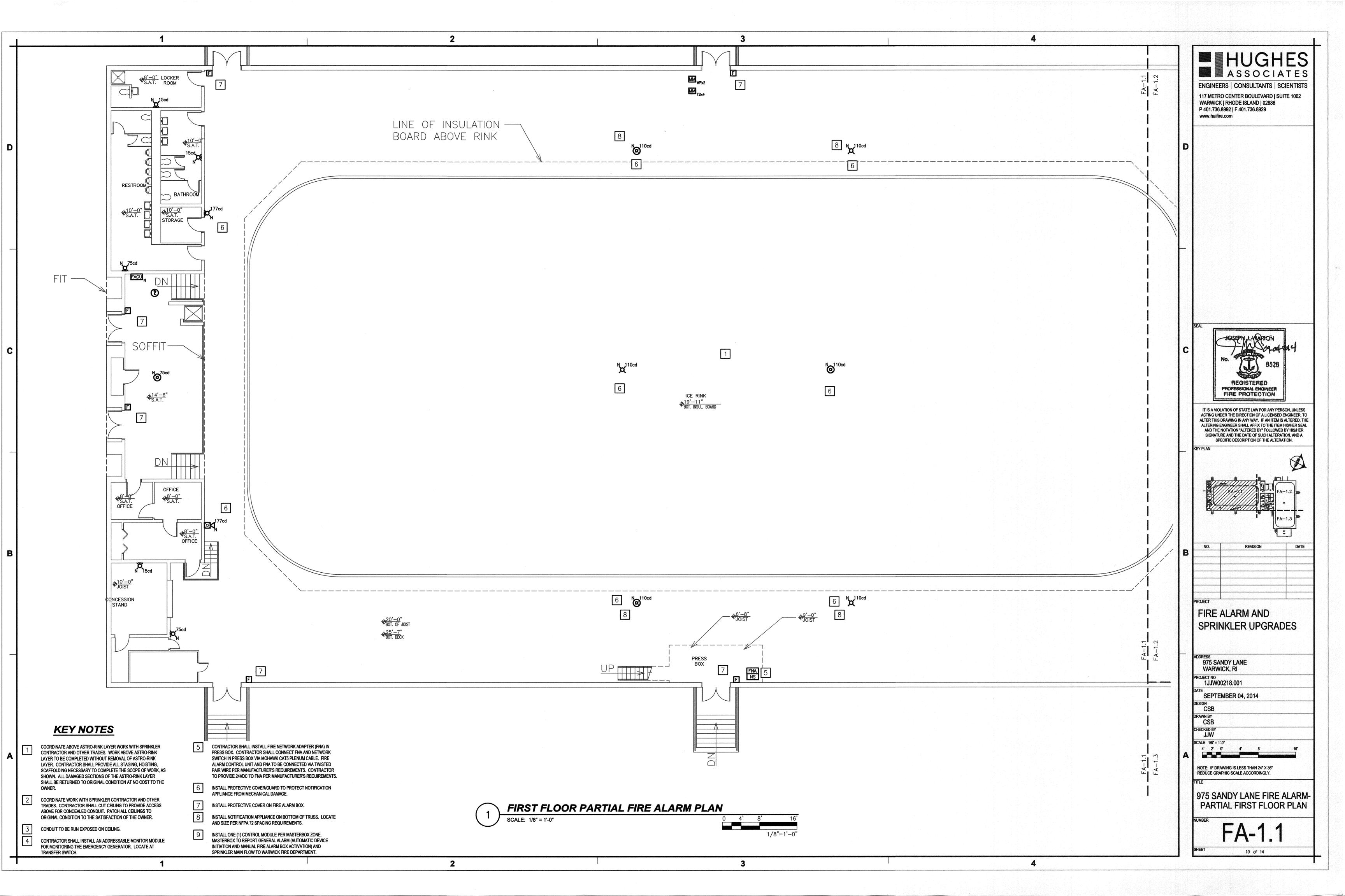


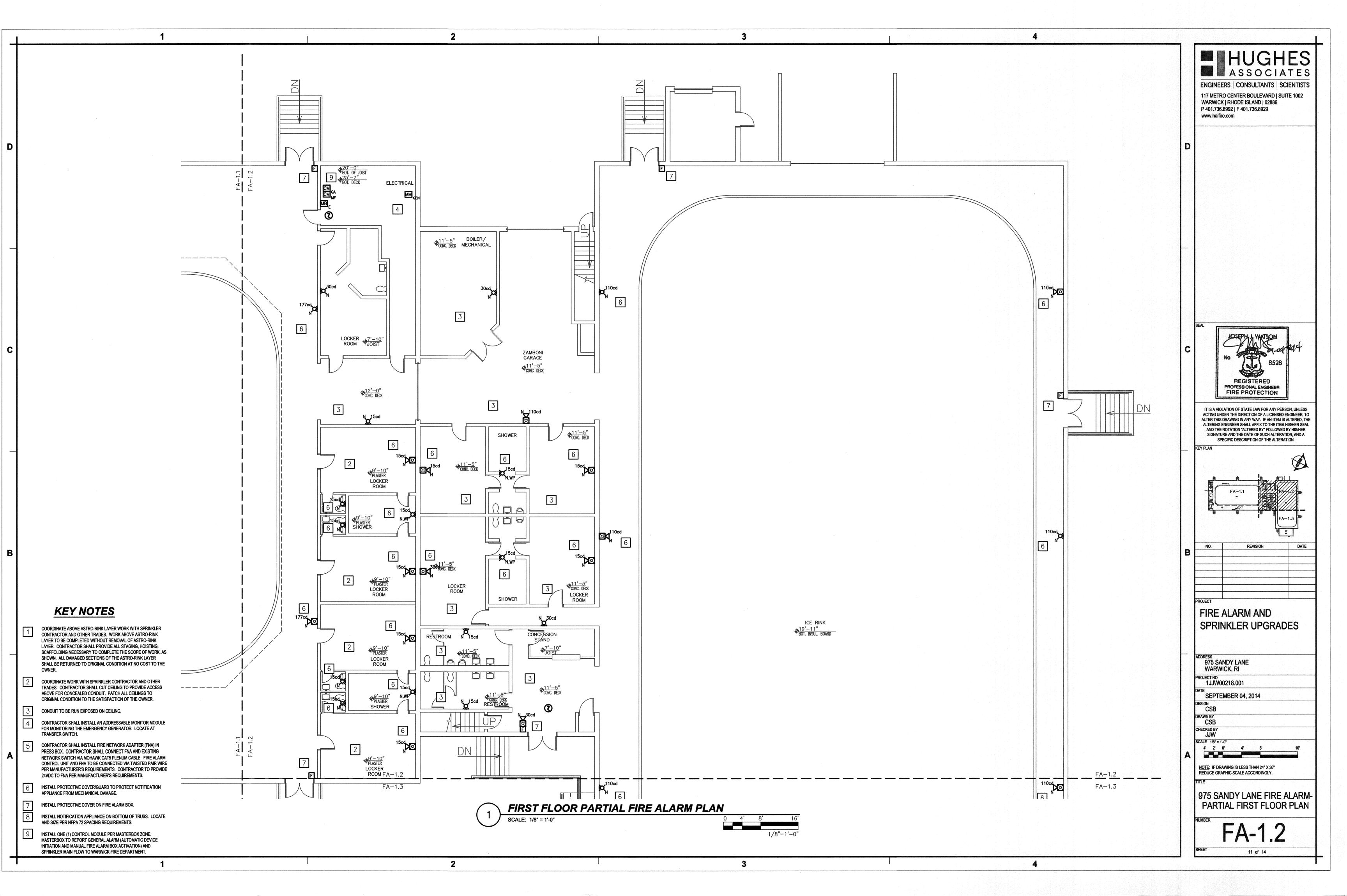


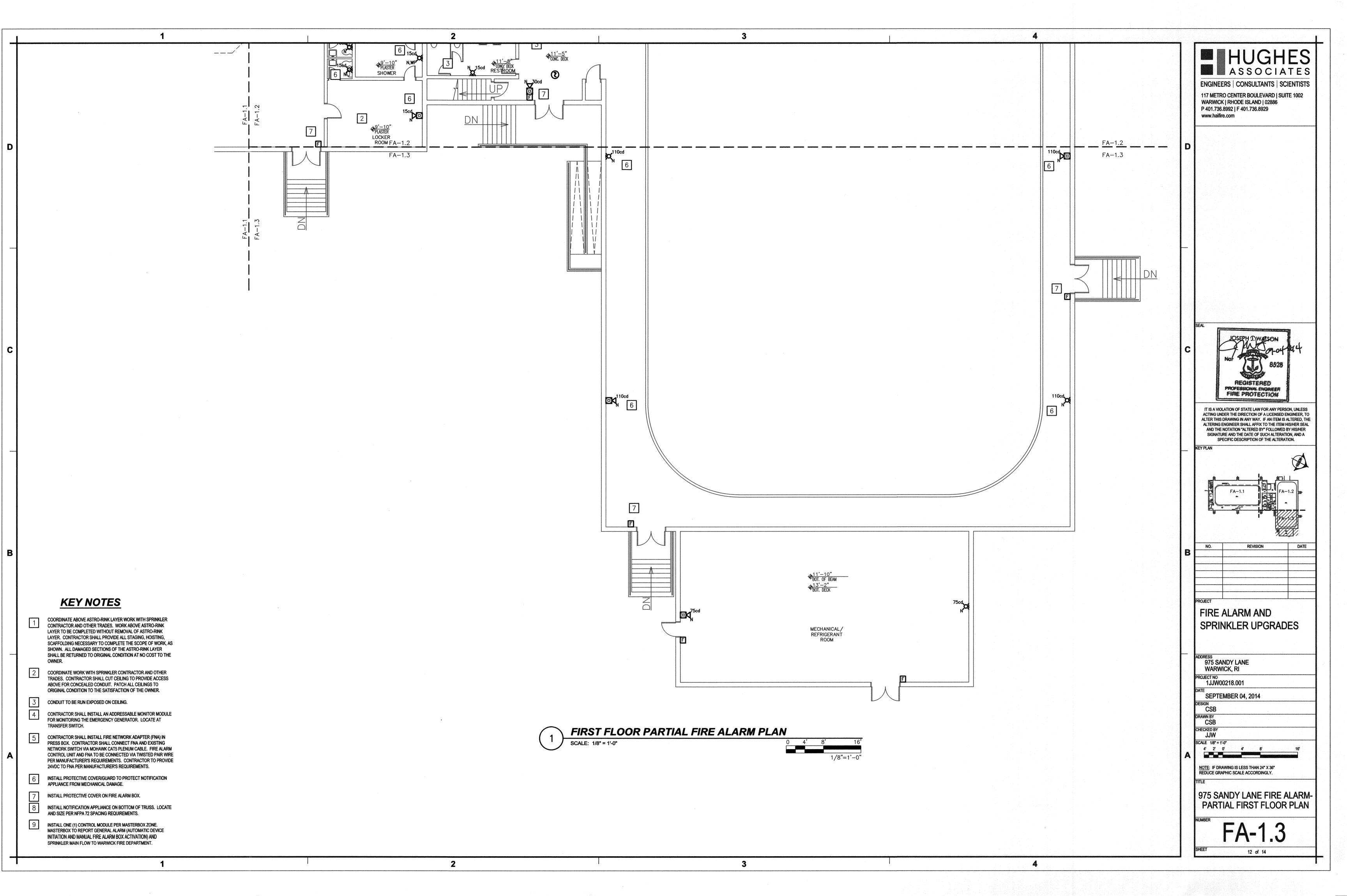












2. THE SCOPE OF WORK INCLUDES A COMPLETE REPLACEMENT OF THE EXISTING FIRE ALARM SYSTEM WITH A NEW ADDRESSABLE FIRE ALARM CONTROL UNIT, NEW NOTIFICATION APPLIANCES, NEW ADDRESSABLE DEVICES, NEW SIGNALING LINE CIRCUITS AND NEW NOTIFICATION APPLIANCE CIRCUITS, AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DEMOLISH ALL EXISTING FIRE ALARM COMPONENTS, INCLUDING WIRE, EXCEPT THE EXISTING RADIO MASTERBOX (#341). CONDUIT TO BE ABANDONED IN PLACE. INCLUDED IN THE SCOPE OF WORK IS SCAFFOLDING, STAGING, RIGGING, OR HOISTING NECESSARY TO INSTALL ALL COMPONENTS, AS SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL INSTALL FIRE NETWORK ADAPTER (FNA) IN THE FIRE ALARM CLOSET. CONTRACTOR SHALL CONNECT FNA AND NETWORK SWITCH IN THE FIRE ALARM CLOSET VIA MOHAWK CAT5 PLENUM CABLE. FIRE ALARM CONTROL UNIT AND FNA TO BE CONNECTED VIA TWISTED PAIR WIRE, PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR SHALL PROVIDE 24VDC POWER TO FIRE NETWORK ADAPTER, PER MANUFACTURER'S REQUIREMENTS. INCLUDED IN THE SCOPE OF WORK IS PROGRAMMING OF THE FIRE ALARM CONTROL UNIT AND THE HONEYWELL ENTERPRISE BUILDING INTEGRATOR. CONTRACTOR SHALL INCLUDE IN THE BID ONE (1) YEAR OF HONEYWELL ENTERPRISE BUILDING INTEGRATOR LICENSE AGREEMENT FOR A TOTAL OF 250 POINTS (250 TOTAL FOR 955 AND 975 SANDY LANE). CONTRACTOR SHALL PROVIDE ONE (1) CONTROL MODULE PER MASTERBOX ZONE; INCLUDE ONE (1) CONTROL MODULE FOR GENERAL ALARM.

3. THE SCOPE OF WORK INCLUDES FURNISHING ALL SERVICES, EQUIPMENT, PERMITS, TESTING, ETC. THAT ARE REQUIRED TO REPLACE THE EXISTING AUTOMATIC FIRE ALARM SYSTEM WITH A NEW ADDRESSABLE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS AND AS INDICATED ON THE DRAWINGS AND IN THE TECHNICAL SPECIFICATIONS.

4. PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT ALL PRODUCT DATA SHEETS, BATTERY CALCULATIONS, POINT-TO-POINT WIRING DIAGRAMS AND A SEQUENCE OF OPERATIONS TO THE OWNER FOR APPROVAL. REFER TO THE TECHNICAL SPECIFICATIONS FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

5. ALL NEW SIGNALING LINE CIRCUITS (SLC) SHALL BE INSTALLED CLASS A AND ALL NEW NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE INSTALLED CLASS A.

6. ALL NEW WIRING SHALL BE INSTALLED IN METAL RACEWAY OR APPROVED MC CABLE. MC CABLE SHALL ONLY BE INSTALLED ABOVE ACCESSIBLE CEILINGS. ALL WIRING SHALL BE INSTALLED FOLLOWING THE COLOR CODE OF RILSC SECTION 9.6.9.8.

7. THE SCOPE OF WORK INCLUDES DEMOLITION OF ALL EXISTING FIRE ALARM EQUIPMENT, INCLUDING ALL WIRING AND CONDUIT, EXCEPT EXISTING RADIO MASTERBOXES (#339 AND #341).

8. THE FIRE ALARM SYSTEM CONTRACTOR SHALL DETERMINE THE NUMBER OF ADDITIONAL REMOTE POWER SUPPLIES, IF NEEDED, TO SUPPORT ALL NOTIFICATION APPLIANCES SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD LOCATE THE ADDITIONAL REMOTE POWER SUPPLIES AND PROVIDE A PHOTOELECTRIC SMOKE DETECTOR IN THE IMMEDIATE VICINITY OF EACH REMOTE POWER SUPPLY. THE LOCATION OF EACH REMOTE POWER SUPPLY SHALL BE APPROVED BY THE OWNER AND ENGINEER. ALL REMOTE POWER SUPPLIES ARE REQUIRED TO BE TRIPPED VIA THE SIGNALING LINE CIRCUIT.

9. ALL WALL-MOUNTED VISIBLE NOTIFICATION APPLIANCES AND COMBINATION AUDIBLE/VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR. ALL WALL-MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 INCHES AND BELOW THE FINISHED CEILING AT DISTANCES NOT LESS THAN 6 INCHES.

10.UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL SUBMIT CLOSEOUT DOCUMENTATION INCLUDING UPDATED ACCURATE AS-BUILT DRAWINGS TO THE OWNER, AS DESCRIBED IN THE TECHNICAL SPECIFICATION. THE UPDATED AS-BUILT DRAWINGS SHALL INDICATE THE EXACT LOCATION OF ALL CONTROL EQUIPMENT, DEVICES AND APPLIANCES ZONE DIAGRAMS, THE EXACT LOCATION OF ALL INSTALLED WIRING AND RACEWAY, INCLUDING THE NUMBER OF CONDUCTORS IN EACH PORTION OF THE CIRCUIT AND THE LOCATION OF JUNCTION BOXES AND TERMINAL CABINETS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO SPRINKLER. BID SHALL INCLUDE ALL PERSONEL NECESSARY TO COMPLETE INTEGRATION BETWEEN FIRE ALARM AND OTHER TRADES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PAINTING AND PATCHING TO THE ORIGINAL STATE AND TO THE SATISFACTION OF THE OWNER.

13. THE CONTRACTOR SHALL REMOVE, PROTECT, AND RE-INSTALL ALL EXISTING LAY-IN ACOUSTICAL TILE CEILINGS WHERE WORK IS REQUIRED ABOVE THE LAY-IN ACOUSTICAL CEILING. ANY TILES BROKEN SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING OF ALL RACEWAY IN PUBLIC AREAS TO THE SATISFACTION OF THE OWNER.

RISER DIAGRAM NOTES

A

. THE RISER DIAGRAM IS CONCEPTUAL IN NATURE. IT DOES NOT INTEND TO REPRESENT ACTUAL WIRING AND RACEWAY INSTALLATION. ALL CONDUCTORS AND WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

CEILING

STAND-ALONE
VISIBLE APPLIANCE

STAND-ALONE
VISIBLE APPLIANCE

LENS

OPERATING
HANDLE

TYPICAL MOUNTING HEIGHT DETAIL
FOR WALL-MOUNTED COMPONENTS

MEZZANINE

MEZZANINE

NEW FACU

NEW FNA-3

CAT Se PLENUM CABLE FROM PNA-3 TO NETWORK SWITCH IN PRESS BOX

FIRST FLOOR

FIRST FLOOR

CONCEPTUAL PARTIAL RISER DIAGRAM

SCALE: NOT TO SCALE

REQUIRED SYSTEM OUTPUTS ANNUNCIATION AND OFF PREMISES SIGNAL **ANCILLARY FUNCTIONS** FIRE ALARM OPERATIONS **INDICATION** TRANSMISSION MATRIX SYSTEM INPUTS **ALARM SIGNALS** MANUAL FIRE ALARM BOX AUTOMATIC DETECTION DEVICE (HEAT OR SMOKE DETECTOR) INITIATION LINEAR HEAT DETECTION SUPERVISORY SIGNALS TRANSFER TO EMERGENCY POWER DUCT DETECTOR ACTIVATION TROUBLE SIGNALS OPEN CIRCUIT (SEE NOTE 2) CIRCUIT GROUND FAULT (SEE NOTE 1) AC POWER FAILURE (SEE NOTE 1)

NOTE 1: SYSTEM SHALL REMAIN OPERATIONAL DURING FAULT.
NOTE 2: NOTIFICATION APPLIANCE CIRCUITS SHALL REMAIN OPERATIONAL.

SEQUENCE OF OPERATIONS

SYMBOLS LEGEND ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR ADDRESSABLE DUCT DETECTOR ADDRESSABLE HEAT DETECTOR (COMBINATION 135F/RATE-OF-RISE UNLESS OTHER WISE NOTED) ADDRESSABLE MANUAL FIRE ALARM BOX (DOUBLE-ACTION) WALL-MOUNT HORN/STROBE NOTIFICATION APPLIANCES (CANDELA RATING AS NOTED) WALL-MOUNT STROBE NOTIFICATION APPLIANCE (CANDELA RATING AS NOTED) CEILING-MOUNT HORN/STROBE NOTIFICATION APPLIANCE (CANDELA RATING AS NOTED) CEILING-MOUNT STROBE NOTIFICATION APPLIANCE (CANDELA RATING AS NOTED) ADDRESSABLE FIRE ALARM CONTROL PANEL ADDRESSABLE MONITOR MODULE ADDRESSABLE CONTROL MODULE FAULT ISOLATION MODULE LINEAR HEAT DETECTION (PROTECTOWIRE MODEL PLR, TEMPERATURE RATING AS NOTED) --- H -- H ----FIRE DEPARTMENT KNOX BOX REMOTE TEST SWITCH RADIO MASTERBOX (EXISTING TO REMAIN) FIRE NETWORK ADAPTER **NETWORK SWITCH** SUBSCRIPTS: 190F HEAT DETECTOR N NEW DEVICE/APPLIANCE E EXISTING COMPONENT TO REMAIN CONTROLS HVAC UNIT WEATHERPROOF APPLIANCE MASTERBOX ZONE - GENERAL ALARM GEN EMERGENCY GENERATOR

HUGHES
ASSOCIATES
ENGINEERS | CONSULTANTS | SCIENTISTS

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IT IS A VIOLATION OF STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ENGINEER, TO ALTER THIS DRAWING IN ANY WAY. IF AN ITEM IS ALTERED, THI ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NO. REVISION DATE

FIRE ALARM AND
SPRINKLER UPGRADE

ADDRESS
955 SANDY LANE
WARWICK, RI
PROJECT NO
1JJW00218.001
DATE

SEPTEMBER 04, 2014
DESIGN
CSB
DRAWN BY
CSB
CHECKED BY

4' 2' 0' 4' 8'

NOTE: IF DRAWING IS LESS THAN 24" X 36"
REDUCE GRAPHIC SCALE ACCORDINGLY.

955 SANDY LANE FIRE ALARM-NOTES, LEGEND, AND DETAILS

FA-2.0

2

